

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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Application Number

10/722,812

Filing Date

November 26, 2003

First Named Inventor

SON, Se Hwan

Art Unit

1774

Examiner Name

M.R. Yamnitzky

Attorney Docket Number

29137.051.00 US

U.S. PATENT DOCUMENTS

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Signature**

Date Considered

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		JP 07-11249 A	01/13/1995	Mitsui Petrochem Ind Ltd	English Abstract	■
		JP 2005-167175	06/2003	Novaled GMBH	English Abstract	■
		JP-06-163158 A	06/10/1994	Pioneer Elec. Co.	English Abstract	■
		KR-10-2000-0082085	12/26/2000	LG Chem Investments, Ltd.	English Abstract	■
		KR 10-2003/0067773 A	08/19/2003	LG Chemical Ltd.		■
		PCT/KR00/01537	12/27/2000	LG Chemical		
		PCT/KR/2005-001381	05/11/2005	LG Chem. Ltd.		
		WO 03/012890 A2	02/2003	Technische Universitat		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Kim, J.S. et al., "Indium-tin oxide treatment for single and double-layer polymeric light-emitting diodes: The relation between the anode physical, chemical, and morphological properties and the device performance", Journ. of Applied Physics, Vol. 84, No. 12, pp. 6859-70 (Dec. 1998).	
		Kruger, Jessica et al., "Modification of TiO ₂ Heterojunctions with Benzoic Acid Derivatives in Hybrid Molecular Solid-State Devices," Advanced Materials, Vol. 12, pp. 447-51 (2000).	
		Perterse, Koen et al., "Towards Organic N-Type Semi-Conducting Materials", Polymer preprint, 40, pp. 404-5 (1999).	
		G. Gu, et al., "Transparent Organic Light Emitting Devices", Applied Physics Letters, vol. 68 (19), p. 2606-2608 (May 1996).	
		G. Parthasarathy, et al. "A Metal-Free Cathode for Organic Semiconductor Devices" Applied Physics Letters, vol. 72, (17), pp. 2138-2140 (April 1998)	
		L. S. Hung, et al. "Interface Engineering In Preparation of Organic Surface-Emitting Diodes", Applied Physics Letters, vol. 74 (21), pp. 3209-3211 (May 1999).	
		Chieh-Wei Chen, et al. "An Effective Cathode Structure for Inverted Top-Emitting Organic Light-Emitting Devices", Applied Physics Letters, vol. 85 (13), pp. 2469-2471 (Sept. 2004).	
		Jie Liu, et al. "Efficient Bottom Cathodes for Organic Light-Emitting Devices", Applied Physics Letters, vol. 85 (5), pp. 837-839 (August 2004).	
		Chang et al., "Dual-color polymer light-emitting pixels processed by hybrid inkjet printing", Applied Physics Letters, 73 (18), pp 2561-2563 (November 1998).	
		Birstock et al., "Screen-printed passive matrix displays based on light-emitting polymers", Applied Physics Letters, vol. 78, (24), pp. 3905-3907 (June 2001).	
		J. Cui et al., "Indium Tin Oxide Alternatives - High Work Function Transparent Conducting Oxides As Anodes For Organic Light-Emitting Diodes", pp. 1476-1480, Advanced Materials, 2001, 13, No. 19, (Oct. 2001).	

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